



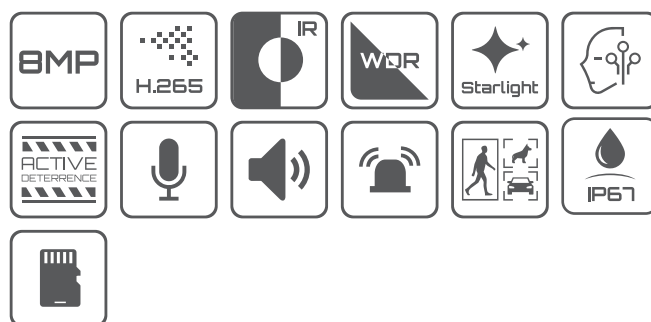
AMX-3I381H-ASPV/28

8MP IR Fixed Focal Eyeball Network Camera

4K
ULTRA HD



With advanced deep learning algorithm, the Diamond Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this Diamond Series camera provides a better image effect in the condition of low illuminance.



MODEL(S) AVAILABLE

KEY FEATURES

- ▶ 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- ▶ Max. 8MP (3840 × 2160) @ 20 fps (AI function enabled); 8MP (3840 × 2160) @ 25/30 fps (with AI function disabled)
- ▶ H.265 codec, high compression rate, low bit rate
- ▶ Built-in warm illuminator, and the max. illumination distance: 98 ft (30 m)
- ▶ ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- ▶ Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- ▶ Alarm In/Out: 1/1; Audio In/Out: 1/1; Supports max. 256 GB Micro SD card; Built-in Mic and Speaker
- ▶ 12V DC / PoE power supply
- ▶ IP67 protection
- ▶ SMD Plus; Red and blue flashlight alarm

Product Specifications

Camera	
Image Sensor	1/2.8" 8MP Progressive CMOS
Image Resolution	3840 (H) × 2160 (V)
ROM	128 MB
RAM	512 MB
Electronic Shutter	Auto/Manual 1/3 s ~ 1/100,000 s
Minimum Illumination	0.007 Lux @ F1.4
S/N Ratio	> 56 dB
IR LEDs	2 (Warm light)
IR Distance	98 ft (30 m)
Lens Type	Fixed-focal
Focal Length	2.8 mm
Angle of View	Horizontal: 107°
	Vertical: 56°
	Diagonal: 127°
Max. Aperture	F1.4
Close Focus Distance	4.6 ft (1.4 m)
Pan / Tilt / Rotation	Pan: 0°~360° / Tilt: 0°~78° / Rotation: 0°~360°

Video Standard	
Video Compression	H.265/H.264/H.264H/H.264B/MJPEG (Sub stream only)
Smart Codec	Smart H.265+ / Smart H.264+
Video Frame Rate	Main stream: 3840 × 2160 @ 1–20 fps (by default) 3840 × 2160 @ 1–25/30 fps (AI function disabled)
	Sub stream: 704 × 576 @ 1–25 fps / 704 × 480 @ 1–30 fps
	Third stream: 1920 × 1080 @ 1–25/30 fps
Streaming Capability	3 Streams
Video Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288 / 352 × 240)
Bit Rate Control	CBR; VBR
Video Bitrate	H264: 3 Kbps ~ 8192 Kbps H265: 3 Kbps ~ 8192 Kbps
Day / Night	Auto (ICR) / Color / B / W
BLC Mode	Yes
HLC Mode	Yes
Wide Dynamic Range	120 dB true WDR
White Balance	Auto / Natural / Street Lamp / Outdoor / Manual / Regional Custom
Gain Control	Auto / Manual
Digital Noise Reduction	3D DNR
Motion Detection	On / Off (4 areas)
Region of Interest	4
Smart Illumination	Yes
Mirror	Yes
Privacy Masking	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower)

Network & Interface	
Ethernet	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
Network Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone; Genetec
Scene Self-Adaptation	Yes
Streaming Method	N/A
Network Max. Users	20 (Total bandwidth: 72 M)
Storage	FTP; SFTP; NAS Micro SD Card Slot (support max. 256 GB)
Web Viewer	IE / Chrome / Firefox
Management Software	Smart PSS / DSS / DMSS
Mobile	iOS / Android
BNC	N/A
Audio I/O	1/1, RCA port
Alarm I/O	1/1
Audio Compression	G.711a; G.711Mu; G726
Built-in Mic	Yes

Video Intelligent	
IVS (Perimeter Protection)	Tripwire; Intrusion (support the classification and accurate detection of vehicle and human)
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

General	
Power Supply	12 V DC / PoE (802.3af)
Power Consumption	Basic power consumption: 2.7 W (12 V DC); 3.4 W (PoE); Max. power consumption (WDR + H.265 + IR + warm light + sound alarm): 7.4 W (12 V DC); 8.1 W (PoE)
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F) / ≤ 95% RH
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Protection	IP67
Casing	Metal
Dimensions	110.9 mm × Φ122.0 mm (4.4" × Φ4.8")
Net Weight	754 g (1.7 lb)
Gross Weight	915 g (2.0 lb)
Certification	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B

Product Specifications

Product Accessories



PFA137



PFA152-E



PFB203W



PFB220C

Product Dimensions (mm [inch])

